Claims for Patent Entitled "Toenail Fungal Eradicator"
Application Number 10/657,571

1. To the best of my knowledge, I am the first to think of using a "wearable" battery powered light emitting diode device to directly illuminate toenail and fingernail fungal infections for the purpose of eradicating those fungal infections. This device fits over the infected area and exposes the fungal infection to light for extended periods of time. Prolonged exposure to light is fatal to most fungi.
2. I propose using a very simple device consisting of a small battery (such as a hearing aid battery or computer motherboard battery), a light emitting diode, a plastic housing, and the necessary wiring to connect them together to complete a simple circuit making the diode emit light, and a method to attach them to the infected nail. The attachment may be an elastic strap, Velcro strap, or any other method which will hold the device in place. (see drawing figure 2)
3. I would like this patent to cover all spectrums and colors of light, including ultraviolet, as I am unsure which spectrum/color is most effective.
4. This is currently done with systemic medications that are potentially harmful to the liver and possibly other organs, and are also extremely expensive.
5. This improved technique is cheaper, and safer, as it is non-invasive and has no predicted systemic effects.
6. In summary, I would like to patent a "wearable" battery operated device that provides exposure of toenail and fingernail infections to localized direct light (existing technology indicates the use of a light emitting diode) for the purpose of killing the fungal infection.

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